



May 6, 2016

Mr. Jeffrey Walsh, P.E.  
Vice President  
Graves Engineering, Inc.  
100 Grove Street  
Worcester, MA 01605

Via: Hand Delivery

Reference: Project Plan Review  
**Equine Arena & Shared Parking Facility**  
The Cummings School of Veterinary Medicine at Tufts University  
North Grafton, Massachusetts  
WDA JN-0016.14

Dear Mr. Walsh:

On behalf of The Cummings School of Veterinary Medicine at Tufts University (Applicant), Waterman Design Associates, Inc. (WDA) is submitting herewith responses to address the comments in your letter, dated April 15, 2016.

**Tufts 2014 Master Plan**

1. No response necessary.

**Grafton Zoning Bylaw**

2. No response necessary.

**Hydrology Review & MassDEP Stormwater Management**

3. Soil testing was performed by WDA on March 31<sup>st</sup> and again on May 4<sup>th</sup> to verify local conditions. We found the south side of Route 30 (building site) to consist of filled areas over sandy loam and the north side (infiltration basin) to consist of loamy sand. Refer to the site plans for soil type delineations and testing locations, as well as soil logs of the holes and probes performed by WDA. The soils testing further indicated seasonal groundwater as high as 3' from ground surface on the south (building area) portion of the project site and as high as 18" on the north side of Route 30. Based on the findings of the soils testing, we determined that neither portion of the site is conducive to recharge and that the three proposed subsurface infiltration systems must be eliminated. As a result, the plans now depict an alternative drainage system consisting of a small infiltration basin on the north side of Route 30 to detain stormwater runoff not only from the proposed development but from much of the existing and recently redeveloped Tufts campus adjacent to Willard Road as well as a small portion of Route 30. The system has been designed to mitigate water quality and quantity impacts to the extent practicable given the site conditions and limitations. The design also removes a significant area of the Tufts campus from the Town's existing drainage system in Route 30. Further, the redesign will correct an existing erosion

problem at the outlet of the Route 30 drainage system in this one location. Please refer to the revised plans included with this filing.

4. Total Suspended Solids (TSS) calculations may be found in the narrative portion of the revised Stormwater Report included with this filing.
5. An Illicit Discharge Statement, as required by MassDEP Stormwater Management Standard #10, may be found in the narrative portion of the revised Stormwater Report included with this filing.

**General Engineering Comments**

6. The Plans have been revised accordingly.
7. SIS-103 has been eliminated per the new drainage design.
8. The Plans have been revised accordingly.
9. The Plans have been revised accordingly.

We trust the responses herein in and the revisions that are reflected in the updated site plans adequately address the comments in your letter of April 15, 2016.

Very truly yours,

WATERMAN DESIGN ASSOCIATES, INC.



Michael J. Scott, PE  
Associate

cc: Mr. Joseph Laydon, Grafton Town Planner  
Mr. Jack McDonald, Sr., Tufts University  
Ms. Jean Poteete, Tufts University

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**WATERMAN DESIGN ASSOCIATES, INC.**

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